### AUTOMOTIVE SECTION

# THE HUMAN SIDE OF AUTO OWNERSHIP

By L. J. FAULKNER.

Outside of its general utility and the pleasure derived

This factor has a powerful influence over the adherence

I allude to the human touch or, for want of a better

This thought was brought forcibly to my mind by

When one considers the great enjoyment one obtains

name, the fatherly affection that they have for their par-

casually reading over a few of the many answers The Times

has received in the last few weeks in connection with their

AUTOMOTIVE

\$2,000,000,000 WORTH OF CARS SOLD SINCE JAN. 1

The rapid expansion of the motor car offers a wide field in practically every line of endeavor directly or indirectly connected with the business world, or Industrial America," says G. C. Frey of the Kissel Motor Car Company: "Even bankers appreciate that the automobile is very largely a utility rather than a pleasure vehicle

balance of \$200,000,000 by the banks and financing companies. The aggregate wholesale value approximates \$1,500,000.000. about \$400,000 600 of which is financed by banks and other



construction and performance are essential when you are choosing the right motor car. The Stutz will make good for you every



Motor 4th and M Sta

SOLD ON ITS MERITS

THE modern Gasoline Intensiner and

ether. Sold on an increased mileage guar-

antee of 15 to 40%. Giving more Power,

Speed, Perfect Combustion, Quick Pick-up

One Dollar a Box-Enough for

100 Gallons of Gasoline

If in doubt send postal to factory agent for sample

Manufactured by

Toledo, Ohio

package sufficient for ten gallons. It will be sent postage

S. B. Campbell, Chas. G. Butler Co.

Ask Your Nearest Deale

and Eliminates and Prevents Carbon.

Vigorizer contains no acids, alkali or

This column is devoted to the interest of

This column is devoted to the interest of the autoist. All questions as to care and upkeep, engine troubles, tours, etc., will be sheerfully and fully answered by an expert. Questions must reach this office not later than Thursday to insure issue in current week. Address all communications care than Thursday to insure issue in current week. Address all communications care than Thursday to insure issue in current week. Address all communications care has aiready reached \$2,000,000,000,000,000 about \$1,800,000,000 of this total being provided by the buying public and the balance of \$200,000,000 by the banks

Tire Wisdom in Brief.

The average tire used by the motorist can be made to give thousands of miles of additional service if proper attention is paid to inflation, immediate repair of tread injuries and proper conditions of tire operation. This statement is made by H. A. Tarantous in an article entitled "Making Tires Last Longer," which appears in the August issue of MoToR. He emphasizes the importance of inflation, stating that thousands of tire mile are lost through insufficient pressure. It is a case of neglect on the owner's part and this must be overcome if the lowest cost per tire mile is to be had.

"A tire of certain size is designed to carry a certain weight only when the pressure of air within is correct. When that pressure is reduced or when the weight is increased beyond that sepicfied, then the tire is opertion (or overloading even with the

certain pressure is to give it a certain shape which ought to be main-

tained as long as possible. It is perhaps more important to note the shape of the tire than it is to know but knowing that a certain pressure from its use there is one important factor connected with the exact number of pounds pressure, produces a certain shape one can more conveniently use the tire gauge. the ownership of an automobile that is seldom thought of. To show the importance of using the gauge frequently one maker of tire valves calls, attention to the possible that an owner will have for a particular make of car. loss of a great deal of air in a short time due to a small speck of dirt on the tire valve. Many owners forget or neglect to screw on valve stem caps with the result that dirt makes ticular machines. its way into the top of the stem. A serious loss of pressure due to this leakage, would be detected immediately when the owner uses the

"Small tube repairs are quite easy or the average owner. The sim- contest for which money prizes were offered for the most inplest and quickest method for small teresting week-end trip out of Washington. Throughout holes, such as pin holes, but not much larger than 1-16 inch, is to use ce- the stories there runs a feeling of tenderness and affection mentless patches, which simply d toward the auto that they own that is very appealing. One quire that the patch face be immer jury cleaned with gasoline and rubbed speaks of the beautiful purring of his favorite car, its with sandpaper and the patch is ap masterful ability to carry him over rough places and the plied and pressed down firmly. The cement is applied in three successive great dependability he has for his particular car. coats which are allowed to become tacky after which the patch is applied, and pressed down firmly. Both daughter. cement and cementless patches should

"Tube punctures of large size, one on a beautiful motor trip where no engine or tire troubles half inch or over, should be repaired intervene, with a smoothly running car and a perfectly by means of patches vulcanized to the The stock for patching may functioning engine, one cannot help but feel a sincere adbe purchased in many forms, the most popular being the sheet variety where miration for this contributing factor to his enjoyment the exact size of the patch is cut "The old boat" becomes a human, living being, contributfrom the sheet. Allow a good margin of safety by making the patch ing its share to the day's enjoyment. It is as much due to

be allowed to set for about fifteen

large enough. "Before a tube is inserted in a cas- this human touch as anything else that the loving care is ating under conditions for which it little tire talc should be sprinkled over given by the average owner to his pet, and that a car that was not intended. The under-infig- the surface of the casing. Too much so endears itself naturally becomes the owner's choice when of the tale should not be used, othercorrect pressure) flexes the tire side wise lumps will form and these may he thinks of a new car. walls too much. This causes the side injure the tube. One of the common-walls to break down. In the case est troubles with tubes is so-called of a fabric tire it is likely to cause a pinching. In applying a tire the irons crack in the fabric, and while cords used may accidentally pinch a small portion of the tube. A tire may have this respect than fabric tires, never-theless cords also are injured by theless, cords also are injured by cause a pinch. Where flaps are used and the fiap is inserted so there is a it round; then slip it into position. spare tubes should be folded evenly and placed in a cloth bag. Many tubes are ruined because they were placed in the tool box or under a seat.

There are a number of abuses which tires receive, all of which go toward decreasing tire life. The com-

Kaness has \$1,200,000 worth of hard urfaced roads under construction acording to a statement made by M. W. Trust Co., Detroit. Watson, State highway engineer.

When and How to Grind Valves. Yerkes in an article on "Valve Inspection and Grinding," in August the motor truck is actually getting rubber-how the tiny drops of sap the past thirteen years; by the cla-MoToR. It is quite well known by results. many motorists that not all engines "Right here in Detroit there have lected, go to make up the hundreds and the demands of the Interborough been carloads of food products spell- of thousands of tons of crude rubber, subway, surface and elevated lines the innecessary grinding which makes for lacky valves. The writer one that does not and tells how only gine and, one where the valves are grower to merchant. properly timed, it may be accepted as general rule that valves which are wenly, sooted over and, therefore, lave perfectly black heads, are holding, while those which are red or on short hauls. The customer will re-brownish on top, or show the metal ceive fresher products and at a cheapplainly, without a covering of soot or er price." carbon, are leaking. By observing the tops of the valve heads as soon as the cylinder head is removed and barrel by escaping past the projectile then carefully inspecting the face of before it gets fully under way. The quickly learn to tell what is needed, case look almost as though the metal the looks of the tops is simple and doubtedly a certain amount of meltobvious upon a little thought. Dur- ing of the metal brought about by ing the power stroke of the piston the hot gases, carry away any carbon which may casting near the valve seat, leaving the metal around the leak entirely clear of soot or carbon. Not only will the escaping gas carry away all carbon near the leak, but will also actually wear away the metal itself if

for a long time will frequently show quite a path eroded by the hot gases in rushing through the opening, in much the same way as the gases from the burning powder charges in a high-power rifle or cannon gradually erode the metal of the rifle or cannon

"The object of inflating a tire to a crease in it, a pinch may result. When ertain pressure is to give it a cerinserting a tube inflate it just to make in shape which ought to be main- it round; then slip it into position.

"Heavy receipts of huckleberries brought in by motor trucks has low- motorists and others interested in obmonest of these is caused by mis-arignment of wheels." ered the price \$1 per bushel for De- tires are made is "The Story of the troit buyers. Two truck loads came Tire," a booklet now being distributed land, president of the Signal Motor Company, Akron, Ohio,

"This is just one illustration of what the motor truck is doing in tire manufacture, tracing it from toward cutting the high cost of liv- the sap of the forest tree to the fin- the country for hundreds of miles and It is just as important to know ing. While every one is talking ished product, ready to begin its ca- journeyed in every direction. about what should be done to out reer of service. what should be done to the profiteers, tion occupied today in the world by

edly true of every other city. This tant date when growers and merchants realize the food, money, and He says: "On a properly cooled en- truck transportation direct from a place in the commercial world, sec-

> "The truck can be loaded, driven to destination, and unloaded almost in tion to the magnitude of the rubber less time than it would take to place the shipment on board the cars, and

the valve and the seat, one will paths cut by these gases in either "The reason for the difference in had been melted out and there is un-

the burning gases are under high "The high temperature of the escappressure. If there is the slightest ing gases also causes a different color leak at any point around the face of of the metal around a leaky valve in he valve, the gases will force their many cases. Very frequently a leaky way through at terrific speed and valve will have a reddish appearance, like burned clay or like a furnace have been formed on the top of the grate often shows after being under valve near the leak, as well as on the a very hot fire for some time. This is not an infallible rule for detecting a leaky valve, but on many engines it a very reliable indication.

> The 200-mile national championship motorcycle race at the Ascot Speedway, Los Angeles, Cal., was the most spectacular and greatest national championship ever held there.

Ralph Hepburn, on a Harley-David son, with Goodyear motocycle cord tires, established a new world's mile track record for the distance-time; one hour forty-five minutes fifty-four and three-fifths seconds.

One of the strongest arguments for national highways system is found n the work of the national parks This department is engaged in linking up through highways to the various playgrounds which are located in different States. There is a sharp need for links in through roads to take care of the rapidly expanding travel tires or anything else, unless there is

LOCK YOUR SPARE TIRE.

1620-26 M St. N. W.

Distributers Hember Washington Automotive Trade Association.

A noteworthy addition to tire literafrom the western part of Michigan ture which will be welcomed by all seventy-five miles," says W. K. Hoag- by the Goodyear Tire and Rubber

This booklet is not designed as an advertising feature, but centains the

from the rubbers tree, carefully cola fact which is attributed to ed in the railroad yards before they necessary to supply the world's needs,

> the discovery of the secret of vulcamization brought rubber from the time which can be saved by motor limited field it formerly edecupied to ond only to that occupied by steel, and how the rubber tire draws atten industry. The raising of rubber is described from the gathering and planting of the rubber tree weeds to the tapping of the trees and the gathering of the sap.

The manufacturing process is followed through the various operations of washing, drying, compounding, mixing, spreading and eatendering, tracing the rubber up to the point of its utiliantion in making up the various types of tires; for use on bicycles, motorcycles, airplanes, automobiles and motor trucks.

Inner tubes, the care of tires and the development of tires from the first crude types are all given proper mention in respective chapters.

The work is profusely illustrated with timely photographs, which help to bring home to the reader its message. It is intended for distribution among students, teachers, educational institutions, libraries and all persons interested in rubber. In fact, its pubication was inspired primarily by the numerous requests received from all parts of the world for "information about rubber."

## SALE OF AUTOMOBILE TIRE "SECONDS" APPROVED

automobile tire "seconds" so long as hey are sold as such, suggests a bulletin which has just been issued by the national vigilance committee of the Associated Advertising Clubs of the World, in which the committee deservice of the Department of Interior, scribes a forward step that has been taken by the vigHance committee of the Advertising Club of Los Angeles for the protection of the public. In the future it will be illegal in

that city to advertise "seconds," in displayed in connection with the advertisement the fact that the merchandise is defective.

Automobiles

Franklin 3860

Pays for Itself in 3 Months

Factory Agent,

13131/2 B St. N. E.

prepaid.

Depended the racing fraternity because of its proven worth-isn't that evidence enough for you to equip your car with the Miller?

It conserves power. It generates force and economizes the vital

Phone, Write or Call for Descriptive Booklet



is unaffected by climatic conditions. It has no springs to adjust or get out of order. It breaks up the gasoline into cleven parts instead of one. It is guaranteed for the life of the car. It pays for itself in three months of ordiary mileage. It will onsume, efficiently, a poorer grade of gasoline than any other carburetor made.

It is fool proof. It

GENERAL DISTRIBUTORS

LIBERTY CAR SALES CO.

## Broadway, New York, the costness and best-known street in the world, is to do away with its street cars and have motor busses exclusively for passenger-carrying on the street

Mayor Hylan, of New York City, ias declared that the day of the street surface car has gone forever. He favors the establishment of bus ines overywhere in the five boroughs and the complete eradication of the street car lines, tracks, traffic blockng by crowded cars, and everything

associated with them. New York was the last big city to abandon the ancient horse car line, but about the first to adopt the underground cable and trolley sys-

It is as if they were speaking of a beloved son or tems for surface cars.

The building, maintenance and constant repairs of these made the fortunes of many contractors and "the men higher up," and kept Broadway onstantly tern up for years before he subway came to continue the noise and nuisance for a further dos-

een torn up, pur back again, exver a period of forty years, while siness concerns patiently paid rest and taxes, and suffered until the general migration uptown left whole sections of the great thoroughfare deserted and practically dead.

Its famous old buildings, too old to compete with those of modern construction, too far from the new rail-way centers, described, and falling into ruins, merely mark an era of bygone greatness and progress.

Profitable in Europe in most of the big cities of Europe, and passenger-carrying have proved enormous. They would never have been a success but for the dependable magneto ignition with which, without exception, so far as the writer knows, all motor buses are equipped.

Although trolley lines are still used in the suburbs and interrurban services, these also are given way to the advance of the more popular motor bus, which in England, particularly before the war, made long trips into

The mayor was impressed by the "Right here in Detroit there have lected, go to make up the hundreds and the demands of the Interborough

for rubber is now one of civiliastion's | The continuous trips of the Fifth 300 in all, averaging about 100 miles daily throughout the year, had, in 'hirteen years' service, proved the reliability of the magneto.

Sightneeing Buses Increase. During the past five years the New York, Chinatown and Coney Island "sight-seeing" cars, carrying about increased in numbers. These proved the possibilities of carrying everincreasing numbers of passengers through the crowded streets and byways of the great city and far into

the country. The mayor further states that while he is not at the moment co templating any city-owned motor truck service for the markets, to help bring about reduced prices of food and cleser touch between the farmer and public with the markets, it will undoubtedly become possible as soon

### as the new Hudson River tunnel for vehicular traffic is completed. The entire street railway system trolld by the Public Srvice Corpora tion of News Jersey, and they hav after repeatedly rainsing the fare, adopted a none fare—yet magnetoequipped motor musses in New Jer-sey, and elsewhere, carry millions of passengers daily at 5-cent fares, and earn magnificent profits for their

LOCK YOUR CAR

The Times Auto Emergency Service Is At Your Disposal If you are in need of a haul home, gasolene, or help of any kind Call Main 5-2-6-0

this memo in your note book

The city of Akron, Ohio, wolin we

on a recent Saturday morning to find ployes of the atreet car company had gone on a strike. Thousands of workers employed in the big rubber factories of the city were compelled to seek other means of transportation to their respective places of work. As soon as information of the strike came to the Goodyear Tire and Rubber Company they put into service a fleet of motor trucks over a system of converging routes embracing every part of the city and savirous. So offithe transportation needs of the workers that the 9,000 Goodysar force starting the day's duties on the 5:20 a, m. shift, less than a dozen were tardy.

LOCK YOUR SPARE TIRES



The crowning achievement of nineteen years' successful automobile engineering. A veritable novelty at its best-bold, radical and sweeping, yet not freakish in design. It is mechanically correct. Full comparison by extraordinary first and lasting impression is challenged with any car, regardless of price.

A Few for Immediate Delivery

Motor Company of Washington 24th and M Streets N. W.

Telephone West 710

Guaranteed in Writing for 18 Months

This guarantee means that the Mac-Lar Battery with which given will stand up and be usable for at least one year

Long life and extra high capacity per unit of plate area are combined in the Mac-Lar, assuring, as no other battery will, the highest efficiency and satisfaction at the lowest cost.

All 6-Volt Mac-Lar Batteries, \$25 All 12-Volt Mac-Lar Batteries, \$36

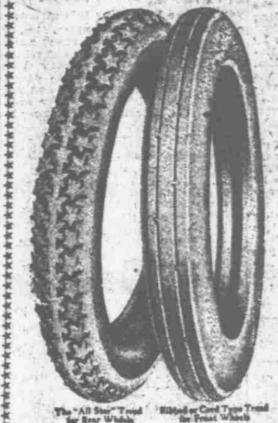
We have a Mac-Lar Master Battery to fit your ear.

FEDERAL BATTERY SERVICE

meaning more and more to Washington motorists every day. Any make of battery promptly and properly recharged, repaired or rebuilt at fair and square prices. Phone North 222-our service truck will call for and deliver your battery without charge or delay. Rental batteries for all cars.

Federal Storage Battery Co.

1525 Seventh St. N. W.



# TRY A STAR ON YOUR CAR

HE differences between STAR TIRES and average tires are vital differences—they far outweigh any dollars-and-cents consideration. The extra cost in the making of STAR TIRES is in far bigger proportion than the little extra you pay for them. The extra cost of the materials used, and the EXTRA PLY that gives them greater strength, is not to be measured by the little extra that STAR TIRES cost. THEY ARE BUILT TO INSURE YOU A SAVING.

# Features of STAR Superiority

An Extra Ply of Fabric-This extra ply is a special checkerboard weave that positively overcomes tread senara-

Five Angles of Skid Resistance—The five angles in every star grip the road surely and quickly, checking a skid instantly.

Extra Heavy Tread-Unusually thick, tough and resilient. There are more miles in a Star tread. Breaker Strip-Made of the best combed Sea Island cotton. Binds tread and body into a unit. Distributes road shocks.

Cushion-Of fine Para rubber-very lively and resilient. Its extra thickness gives STAR TIRES more life-more durability. Side Walls-Generously thick to afford the great.

est possible protection to the fabric. Toughened to resist curb chafing. Come In and Examine the Star Tires

-Judge for Yourself

THE THE DITE

Cor. 12th and New York Ave. N. W.



Analysis of a 5-inch Star Tire

Note the 8 plys of fabric-the thick tread, cushlon and side wall-the wide breaker strip. Ply No. 8 is the checkerboard fabric.